

AMU6520

Digital Audio Management Unit

DZUS

3D Audio

Intercom

Overview

The Becker Avionics Audio Management Unit (AMU) is a standalone digital audio management unit, which was designed for rotary and fixed wing aircraft. A modular and decentralized system design philosophy has been implemented to allow a maximum of flexibility and scalability with up to three units and nine stereo users during the system integration, and to ensure optimum performance and reliability during in-flight operations. The classic design with separate potentiometers for each channel allows for almost blind operation when adjusting the settings.

A decades-proven operating concept, now expanded with cutting-edge features like 3D audio and first-ever control of up to 12 transceivers.

The crystal clear communication is based on a 20-year experience in digital audio systems and the flexibility to combine classic control concepts with modern display-driven controls like the ACU6510.

New functionalities like 3D audio improve the flight awareness significantly, while Bluetooth® connectivity for headsets, smartphones, and handheld radios significantly increases overall system flexibility.



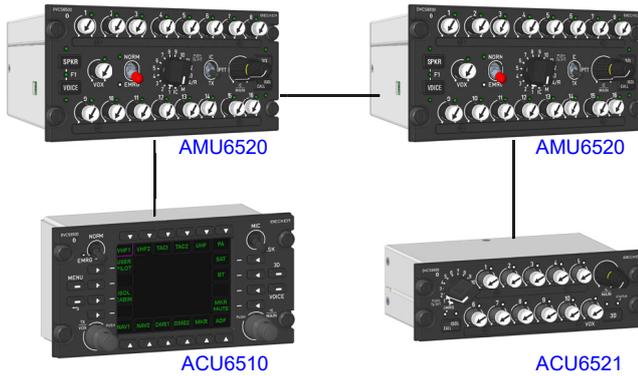
The AMU has been certified according: ETSO-C139a, ETSO-C59b, DO-214A, DO178C Level C, DO-254 Level C and DO-160G.

Optional the AMU has selective call capability (SelCal).

Features

- 4 transceiver in-/outputs
- 4 receiver inputs
- 3 FIX inputs
- 12 transceiver in a system with three AMUs
- 3 stereo headsets (or 2 stereo and 2 mono)
- 3D audio
- Cockpit speaker
- Cockpit voice recorder
- Bluetooth® (stereo)
 - Music, phone calls, tactical radio, etc.
- Simulcast, marker mute, VOX sensitivity and many more
- Emergency functionality
- Certified SelCal decoder (optional)
- Winchman operation (optional)
- Guard Radio (optional)
- Dynamic 3D (optional)
- Intercom Conference (optional)
- Also as NVIS version available
- Easy device change thru replaceable external memory module for configuration
- Less weight
- Glass cockpit connectivity
- Up to 3 control units (ACU6510, ACU6520, ACU6521) can be connected to each AMU6520

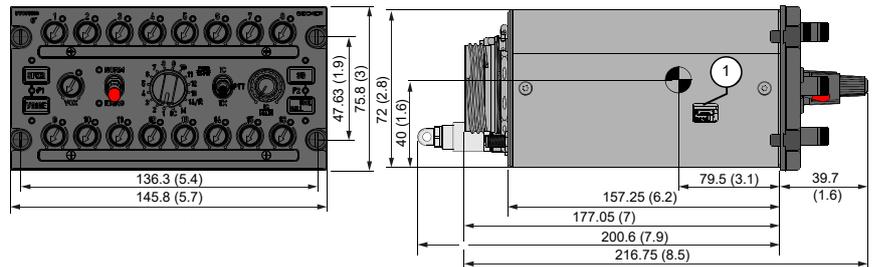




Example setup with 2x AMU6520 supports:

- 8 Transceivers / 8 Receivers / 8 Users
- Support of slim ACU6521
- Mixed configuration with ACU6510 (display variant)

① Service interface Dimensions mm (inch)



Technical Data

AMU6520	Specification	
Nominal voltage	28 VDC	
Emergency voltage	18 VDC	
Nominal current consumption (one AMU) at 28 V	Normal Mode: max. ≤ 1.5 A, Idle ≤ 0.65 A Emergency Mode: max. ≤ 0.8 A, Idle ≤ 0.3 A	
Audio input for transceivers, receivers, alerts	1.2...15 V at 600 Ω (configurable via software)	
Headphone amplifier	High Impedance	Low Impedance
	Rated output power max.	250 mW into rated load
	Output impedance	2 Ω
	Rated load	300 Ω
Mike amplifier	Standard Mike	Dynamic Mike
	Sensitivity/AGC starting point (if AGC on)	100...1500 mV
	Input impedance (AC)	20 Ω
	Type	Amplified providing excitation voltage
Excitation voltage (w/o microphone)	12 VDC	
Speaker amplifier	9 W	
Service interface (USB)	USB 2.0 with Micro B connector	
Forced cooling	No forced cooling required	
Altitude	50 000 ft	
Operating temperature	-40...+55 °C	
Storage temperature	-55...+85 °C	
Short time high operating temperature	+70 °C	
Dimensions HxWxD	75.8 x 145.8 x 216.75 mm (3 x 5.7 x 8.5 inch)	
Installation depth, with EM	177.05 mm (7 inch), 200.6 mm (7.9 inch)	
Weight	≤ 1.5 kg (3.3 lb)	
Installation	Panel installation in cockpit environment, DZUS fastener (4x)	
Bluetooth®	HFP, A2DP and HSP protocol supporting cellphones and handheld radios	
Certifications	AMU6520-(-){}	ETSO-C139a, DO-214A, DO178C Level C, DO-254 Level C and DO-160G
	SelCal	ETSO-C59b